

(Alexi) Unchitta Kan

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Language: English, Thai
Citizenship: Thai

Summary

Ph.D. candidate in Computational Social Science conducting interdisciplinary research on the social and population dynamics that make cities successful and resilient. Passionate about applying complex systems thinking and my computational experience to aid urban policymaking to make cities more livable and equitable.

Relevant coursework: public policy, urban planning, transportation policy, GIS, location science
Relevant skills: Advanced Python, R, GIS, mapping, survey methods, policy writing, SQL

Education

Ph.D. Computational Social Science, Expected 2025 - George Mason University, GPA 3.98
B.S. Applied Mathematics, 2020 - University of California, Los Angeles (UCLA), GPA 3.46
A.S. Mathematics, A.S. Computer Science, 2018 - Foothill College, GPA 3.88

Relevant Experience

Presidential Fellow & Graduate Research Assistant, George Mason University (Fairfax, VA, 2020–Present)

- Led and assisted advisor with multiple interdisciplinary, collaborative research projects on social interaction in cities
- Worked extensively with Census and national household surveys, demographic data, and often spatial data
- Selected research and projects:
 - [Kan, McLeod, López](#) (2024). “Non-coresident family as a driver of migrational change in a crisis: The case of the COVID-19 pandemic.” (Under review, pre-print available at <https://doi.org/10.48550/arXiv.2310.03254>)
 - Led all stages of research from formulation to literature review to writing the manuscript
 - Performed all analyses in the paper including using large data sets to test hypotheses
 - [Kan](#) (2022). “Transit Accessibility Explorer: A web map for exploring accessibility by public transit in Washington, DC.” ([demo screenshot](#); [slides](#))
 - Used WMATA bus network data and real-time transit feed to calculate measures of transit “access”
 - Developed a web map application to interactively display the measures by census tract
 - [Kan](#) (2021). “An agent-based model of the spatial mismatch hypothesis: Involuntary housing choices, job relocation, and labor market outcomes of Black urban workers.” (Unpublished project.)
 - Designed and implemented a simulation model to study the feedback effects of housing choice on job relocation and disparities in labor market outcomes
 - Presented at George Mason University Graduate Interdisciplinary Conference 2023

Research Intern, Institute for the Quantitative Study of Inclusion, Diversity, and Equity (Remote, Summer 2020)

- Co-authored a paper on mathematical indices of diversity and intersectionality
- Supported literature review, scholarly writing, and manuscript editing
- Assisted in data analysis by gathering data, writing code for analyses and simulations, and creating visualizations
- [Topaz, Brooks, Kan et al.](#) (2023). “Diversity, Identity, and Data.” (Accepted into American Mathematical Monthly, pre-print available at <https://doi.org/10.31235/osf.io/hs723>)

Paid Undergraduate Researcher, UCLA (Los Angeles, CA, 2019–2020)

- Under mentorship, led a research project simulating public opinion dynamics on social networks to journal publication
- [Kan, Feng, Porter](#) (2023). “An adaptive bounded-confidence model of opinion dynamics on networks.” Journal of Complex Networks, 11 (1)

Data Science Intern, Clover Network, Inc. (Sunnyvale, CA, Summer 2018, Summer 2019, Summer 2021)

- Provided data science expertise to teams and built internal data tools such as an automated statistical testing tool
- Professionally presented data products to executives and stakeholders
- Evaluated by hiring manager as continually finding “ways to go above and beyond what is expected”